CURRICULUM VITAE

1.BIO-DATA IDENTIFICATION AND ADRESSES

Names : Charles Karemera

Sex : Male

Date of birth : 1976

Marital : Married

Rank : Lecturer

2.ADDRESSES AND CONTACTS

Physical address

Mountains of the Moon University,

School of Informatics and Computing

PO Box 837

Fort Portal, Uganda

Email address

Email:karemecha@mmu.ac.ug / karemacha@gmail.com

Phone contact

Phone number: +256777023977, +256752782444

3.PERSONAL PROFILE

I respond to the need for intellectual resources and capacities which grow out of African experience and a reflection on global best practices. My service products and programs are designed to work on Academic Teaching , Academic research, Community Service market data and consultation on a wide range of issues as well as global optimization.

4.EDUCATION QUALIFICATIONS

TERTIARY EDUCATION

2019 to Date : DOCTOR OF PHILOSOPHY IN COMPUTING

Mbarara University of Science and Technology

Topic : The Complexity and Fairness of the Dynamic Resource Allocation Problems for Heterogeneous Servers

Supervisor : Dr. Nabaasa Evarist and Dr.Pius Ariho

Admission Letter [Annex 1]

PhD Progress Report March 2022 [Annex 2]

Abstract of the PhD Proposal

In some situations, matching between two different sets is done according to preferences of either one set or both. This problem has been used earlier by Gale and Shapley [19] to make marriage stable where every man m ∈ M makes a preference list on women. Likewise, every woman w ∈ W writes an ordered list of preference on men. In this scenario, different instances like i) having incomplete list ii) having ties in a list or iii) having both (incomplete list and ties) can occur with different complexities.

However, in many real life situations, a ceiling of one side or both sides where every resource can handle or can be handled according to its capacities rather than preferences. In this dissertation, the following changes have been made on Hospitals Residents Problem to allocate resources (actors) dynamically: 1) Assignment is based only on one side (actors) 2) The assignment is based mostly on ceilings of actors

3) Every actors a_i is allowed to work on different tasks depending on his/her capacity,and every task is atomic 4) Blocking pairs are not allowed.

A part from above changes, we formalized the dynamic resource allocation problem as follows: A problem consists of a set of m actors A= $\{a_1, a_2, ..., a_m\}$, and a set of n tasks T=$\{t_1, t_2, ..., t_n\}$, tasks are disjoint classes $\{TC_1,TC_2, ..., TC_\tau\}$.We also consider the following

constraints such that our results have boundaries :

i) The size vector $z = z_1, z_2, ..., zn$ where z_i = resources required by t_i

ii) The capacity matrix $C := (c_{i,j})_{m \times n}$ where $(c)_{i,j}$= capacity of a_i to perform t_j.

iii) The ceiling matrix $C\hat{} = (\hat{}c_{i,j})m \times \tau$ where $\hat{}c_{i,j}$ = maximum total resource a_i can devote to C_j tasks.

Moreover, the modified Hospitals Residents Algorithm named MHRA uses two different approaches to address DRA where tasks are considered as having preferences or not. The extensions of MHRA in this context now follows that, actors with more tasks are prioritized over those with less tasks. But it is good to note that in whichever the case (actors with more tasks coming before actors with fewer tasks or otherwise),MHRA will still record the same running time of $O(m^2)$ in the worst case instances.

2008- 2010: Masters of Science in Computer Science [**Annex 3**]

Makerere University - Kampala Uganda.

1999 - 2003 : Bachelor of Science with Education [Annex 4]

2012 : **Cisco Certificate Network Academy**

5.ACADEMIC PUBLICATIONS

1) 11th May 2022

Andrew Ronnie Mugenyi, Charles Karemera,Joshua Wesana ,and Michaël Dooms : "Institutionalization of Organizational Change Outcomes in Development Cooperation Projects: The Mediating Role of Internal Stakeholder Change-Related Beliefs , 2022".

[Annex 5**]**

To be found : **https://doi.org/10.3390/admsci12020060**

Abstract

This paper investigated how change outcomes of development cooperation projects can be institutionalized within the beneficiary organization. While a lot of attention has been paid to sustainability in scientific research on issues, projects, and policies related to environmental, industrial, and agricultural production and sustainability management, there are limited studies on the sustainability of organizational-level change outcomes of aid-based project interventions. Using the lens of organizational change institutionalization models, we examined how internal stakeholders' change-related beliefs, organizational characteristics, and project characteristics relate to the institutionalization process of project outcomes. Data were collected using a questionnaire returned by 130 respondents from a university in the Global South implementing institutional development cooperation projects. Using partial least squares structural equation modeling (PLS-SEM) to analyze the data, we found that organizational characteristics and change-related beliefs both had direct positive effects on the institutionalization process, while project characteristics had negative effects. Additionally, this study reveals that stakeholder change-related beliefs mediated the relationship between organizational and project characteristics and the institutionalization process. The findings support the continual engagement of organizational internal stakeholders in institutionalization efforts throughout the project life cycle, rather than waiting for the project to end. In contrast to the mechanistic, linear result chain approaches that dominate development project discourses, there is a need for more iterative approaches that allow the development of necessary attitudes and behaviors among the beneficiary organization's internal stakeholders to sustain the project-induced changes.

Journal : Administrative Sciences 12: 60. https://doi.org/10.3390/ admsci12020060

2) June, 2019

M Kaahwa,C Zhu,M.Muhumuza,R.Mutyebere,C Karemera : ***The Effectiveness of Audio Media in Enhancing Farmers' Knowledge: The Case of Smallholder Banana Farmers in Western Uganda,International Journal of Recent Contributions from Engineering, Science & IT– eISSN: 2197-8581,*** **iJES – Vol. 7, No. 2, 2019 [Annex 6]**

To be found : https://doi.org/10.3991/ijes.v7i2.10847

Abstract

Although audio media has been presented by previous research as a suitable medium for conveying agricultural information, there is limited research in assessing its effectiveness in assisting farmers' gain agricultural knowledge. This study thus undertook to carry out that investigation by involving 1000 smallholder banana farmers in the study which involved a baseline survey, an intervention, and an end line survey. The preliminary survey results showed that 456 farmers had relevant knowledge of farming practices and were removed from the study. However, 541 farmers were lacking the required knowledge regarding proper banana farming practices. This group was assigned to an intervention of radio broadcasts for one month. All broadcasted content was recorded on CDs and circulated to the participants for continued revision.

This was followed by the end line survey and the two datasets were compared to establish the change in knowledge levels of the farmers. The tests of variances before the intervention and after the intervention indicated that the two groups being compared are assumed to be approximately equal ($p > 0.05$). Results showed a significant difference in the mean knowledge scores before and after the intervention. Furthermore, independent t-test results reveal a statistically significant difference in the pre - and post-knowledge tests of farmers. In addition, results from Pearson Correlations show that farmers' characteristics such as age, gender, and level of education do not influence the uptake of knowledge on farming practices by farmers. However, results reveal a statistically significant association between the source of information (Radio Broadcast & audio CDs) and knowledge gain regarding most banana farming practices by farmers.

This study provides further evidence that audio media in the form of radio broadcasts and audio CDs is a vital source for agricultural information to the rural farmers. Moreover, it can be concluded that farmers' characteristics do not influence knowledge gain for banana farming practices when audio media is used as a medium of information dissemination. And thus, audio media remains a vital source of information for resource-poor farmers and can greatly enhance their agricultural knowledge when audio media is used as an intervention.

3) January 2021

Mark Kaahwa*,Chang Zhu,Moses Muhumuza,Charles Karemera " ***Differences between audio media and conventional methods regarding students' academic performance and*** the influence of audio media satisfaction on their academic scores at a Ugandan university , 2021 "**.[Annex 7]**

To be found : **DOI: 10.1504/IJIL.2021.10037263**

International Journal of Innovation and Learning , January 2021

Abstract

This study examined two hypotheses: There is a difference between students' scores in the conventional and audio media instructional strategies and students' satisfaction with audio media technology influences their academic scores. We carried out an experimental study involving the treatment group with 166 students taught using audio media instructional strategy. The control group consisted of 167 students taught using the conventional approach. Both groups were subjected to similar assessment and academic scores were compared. Independent T-test and multiple regression tests were used in the study. Findings indicate that there is no statistically significant difference in academic performance between the instructional strategies. Furthermore, results showed that students' satisfaction with audio media technology does not influence their academic scores. It can be concluded therefore, that an audio media instructional strategy is another effective teaching approach. Besides, it can be concluded that students' audio media satisfaction does not affect their academic scores.

4) APRIL, 2020

C Karemera, C Zhu , P Baranga ,G Tumwebaze

Effect of Mobile Phones use on Academic Performance Among students of Uganda High Learning Institutions Using Structural Equation Model : 2nd International Conference on

Electrical ,Communication and Computer Engineereing ,Istanbul , Turkey 2020 [Annex 8]

To be found : www.icecce.com

Abstract

Espousal of Smartphone by students of higher learning Institutions has been a universal trend in recent years. It is more than an integral part of adolescents' daily lives and has become the most popular form of electronic communication. In fact, the Smartphone has turned from a technological tool to a social tool according to Sumathi et al.(2018).

This study employed Experimental design in investigating the influence of mobile phone usage on academic performance among Undergraduate Students in School of Informatics and Computing at Mountains of the Moon University, Uganda. The sample for the study was 80 respondents selected from the total population of 93 respondents. The Sample was further divided into two Group, one group was formed by 40 Students who possess Smartphones (named treatment Group) while another group was formed by 40 students who use simple phones (named Control Group). The TRUCKER apps was installed on those Smartphones and the records were retrieved after one week. The Objective of this study was mainly to investigate if using Smartphones or simples phones have an impact on the Academic performance. The sample normality was tested using Shapiro – Wilk's test ($p>.05$) and visual inspection of their histograms, normal Q – Q plots and box plots showed that the Academic Performance scores were approximately normally distributed for both males and females . Regression weights and Multi Regression analysis using AMOS and ANOVA tests showed that overall model has been successful in predicting the Academic Performance with Smartphone apart from two predictors namely usage per day ($\beta= -.703$; $p <.05$) and Smartphone usage which depend on types of Application ($\beta= -1.508$; $p <.05$) other factors are contributors of the Model to predict the Academic Performance with Smartphone.

The study showed also that "*there is a very strong negative relationship between Academic Performance and Smartphone usage , (Pearson correlation r = -.713, p <.05)"* while " *there is no relationship between Academic Performance and Cellphone users – Simple phones(Pearson correlation r = -.118, p <.05)"*. Finally, the independent sample t-test to verify if "*there is no difference between scores of students who use Smartphones and scores of students who use simple phones.***"** was associated with a statistical significant effect, **t(78) =**

-3.46 with **p =.001** .

Submitted Manuscript and wait to be published

5) April, 2016

C Karemera, J Baguma, O Mukamuhinda (2017). ***The Power of ICT Towards Effective Decision Making On Public Resources Allocation : Case of Rural Areas of Uganda*.** **In** proceedings of the **2nd International Conference on Digital Transformation & Global Society , St. Petersburg, Russia, June 22-24, 2016 . [Annex 9]**

To be found at : http://link.springer.com/chapter/10.1007/978-3-319-49700-6_26

Abstract

Many researchers have talked about the role of e - participation as a means of linking Citizens with their Leaders and also playing roles in decision making processes on public resources allocation. However, little is known about models which can cater for citizens who are in rural areas where there are limited infrastructures and other factors like low education, culture, gender, marginalization etc. This paper describes an ICT System which uses Mobile Phone SMS to accelerate citizens - leaders' democratic engagement to improve public service delivery. It builds on the Participatory Action Research (PAR) theoretical frame- work and aims at operationalizing the PAR e-participation model proposed by Toro Development Network in 2014. The system design develops knowledge required for joint reflection and continuous decision making during the engage- ment processes between citizens (civil society) and government through a participatory action research approach. The paper emphasizes the ICT convergence approach combining broadcast media specifically radio, mobile phone and ICT system to receive and request grass-roots citizens' public opinion on national strategies, policies and programs.

6) February , 2016

J Baguma, C **Karemera (2016) .** ***Advancing ICT 4 Government in East Africa : The Case***

of Me & My Leader (MML) e-participation System Design. *The International Conference for e-Democracy and Open Government Danube* **,** Austria, May 21 – 23,2016 **[Annex 10]**

To be found at : http://ieeexplore.ieee.org/abstract/document/7781907/

DOI 10.1109/CeDEM.2016.25

Abstract

This paper describes a Mobile SMS-Online-Radio e-participation system designed to accelerate citizens- leaders democratic engagement to improve public service delivery in the Eastern Africa region. It builds on the participatory action research (PAR) theoretical framework and aims to operationalize the PAR e-participation model previously proposed by Toro Development Network (ToroDev) at the end of 2014. The system design develops knowledge required for joint reflection and continuous decision making during the engagement processes between citizens (civil society) and government through a participatory action research approach. The paper emphasizes the ICT convergence approach that combines broadcast media, specifically Radio, mobile phone and online or internet technologies to receive and request grassroots public opinion on national strategies, policies and programs.

7) December , 2012

C Karemera, J Ngubiri (2012). ***Complexity of the Resource Allocation Matching Problem with weight-based ceilings. In proceedings of the 12th International Conference in Algorithms and Architectures for Parallel Processing***, Fukuoka-Japan. **[Annex 11]**

To be accessed on : http://link.springer.com/chapter/10.1007/978-3-642-33065-0_26

Abstract

Assigning elements of one set to elements of another set is a common occurrence. This has to be done so that certain objectives are met. In some situations, matching between two different sets is done according to preferences of either one set or both. At the same time, in many cases, a ceiling beyond which the allocations can no longer be made exist. Oftentimes, such a ceiling is made on numbers not on weights (for homogeneous tasks/actors, numbers and weights are synonymous). In this paper, we consider allocations where the tasks and actors are not necessarily homogeneous and the allocation ceilings are based on weights rather than numbers. We develop

the algorithm using the Gale and Shapely algorithm for the stable marriage problem as the novel set up. We show that the problem can be solved in polynomial time with worst case being quadratic and best case being linear. We also make sensitivity studies on selected parameters.

2. October , 2011

Master's Degree Dissertation: Title : The Complexity of Dynamic Resources Allocation Problem

3. July , 2005

Bachelor's Degree Dissertation: The Students Perception of Mathematics at O Level

6.PROFESSIONAL EXPERIENCE

April, 2018 to Date : **Promoted to the Rank of Lecturer in School of Informatics and Computing [Annex 12]**

2012 to March 2018 : Assistant Lecturer at School of Informatics and Computing [Annex 13]

7. Professional Trainings

June 2018

Training on Research Design and Proposal Writing - **KU LEUVEN [Annex 14]**

April 2018

LAN - Maintenance - Howest University College **[Annex 15]**

October 9th - 18th October 2018

Training on Advanced Statistical Analysis by KU - Leuven and Mountains of the Moon University.**[Annex 16]**

February 2017

Training on Data Analysis from Ghent University [Annex 17]

November 2016

Training on E – Learning using the Moodle Platform **[Annex 18]**

October 2015

Training on Strategy and Leadership by GIZ **[Annex 19]**

August 2015

Assessment of the Effectiveness of Sms-Radio-Online Data Collection Through Tracfm Application - Towards Designing An Ict-Enabled Data Generation Model In The Rwenzori Region, Western Uganda. **Toro Development Network (Toro Dev.)**

September , 2014

Training on WLAN – Infrastructure - Howest University College **[Annex 20]**

September , 2013

Training on In - Depth -Object - Oriented C# Programming

Howest University College **[Annex 21]**

8. APPOINTMENTS

July 2020

Assignment Of Duties Under the Integrated Data Management System (IDMS) Project [Annex 22]

Responsibilities :

1. Be responsible to the Project Manager for the delivery of the Project activities

2. Lead and ensure timely execution of the project plan, developed above within scope and approved resources (Budget).
3. Asses, profile risks associated with the Project and develop and ensure the implementation of a risk management plan on all aspects and for the duration of the project.
4. Coordinate with other PIT Members to ensure Project success.
5. Ensure that all Project documentation is securely kept and available.
6. Carry out any other activity as assigned by the Project Manager from time to time.

January 2020

Member of the Exam Irregularities Committee [Annex 23]

May , 2018

Personel in charge of Online Results Management System [Annex 24]

June , 2018

Appointment as Chairperson Catering Sub-committee for MMU Graduation Committee [Annex 25]

September , 2017

Mountains of the Moon University Technical Evaluation Committee Member [Annex 26]

November , 2014

Team member for Restructuring the IT Unit at MMU [Annex 27]

Study the functionality of the Unit, Discover its strengths, weakness and Challenges, Propose it's restructuring to make it more appropriate.

July , 2014

Appointed to the University Internal Finance Committee [Annex 28]

Planning and giving guidance on financial matters of the University.

June 2012 : Appointement to an Adhoc Verification Committee – Disposing off old Computers of the University [Annex 29]

Roles :

- Ascertain the number of disposal computers
- Ascertain the number of saleable Computers
- Ascertain the number of computers that are junk
- Determine a price of each saleable computer
- Advise the Executive Board on what to do with the junk Computers

March 2012 to Date : Appointed to Co-ordinate Postgraduate Studies in the School of Informatics and Computing [Annex 30]

Responsibility

- Initiating and coordinating postgraduate Programes in the School
- Providing current, prospective and former graduate students with information regarding the program, courses, teaching and information on graduate policies and procedures
- Preparing admission file summaries and alert applicants with respect to mission information then forwards them to the committee of Postgraduate Studies
- Coordinating research administrative aspects of graduate students in the School
- Providing faculty members with administrative assistance in the development and implementation of graduate courses within the school

9.ADMINISTRATIVE RESPONSIBILITIES

October 2018 to Date

Appointment as Head of Department in the School of Informatics and Computing

[Annex 31]

Educational Duties

- Providing Direction& Responsibility of the Department operations
- Presenting results to the School Board
- Providing general supervision of the work of students &Staff in the Department
- Coordinating the teaching ,research and extension activities of the Department
- Cooperating with other Department s of the School in the further and better development of School/University activities among others.

Administration Duties

- Preparing report to the Dean of the School
- Preparing the Budget of the Department
- Responsible for the distribution and expenditure of Department funds
- Responsible for the care of the Department property
- Prepare the teaching load for the staff in the Department
- Attend faculty meetings
- Chair Departmental meetings
- Accounting officer of the Department

August 2016

Appointment as Head of Department in the School of Informatics and Computing

[Annex 32]

Educational Duties

- Providing Direction& Responsibility of the Department operations
- Presenting results to the School Board
- Providing general supervision of the work of students &Staff in the Department

- Coordinating the teaching ,research and extension activities of the Department
- Cooperating with other Department s of the School in the further and better development of School/University activities among others.

Administration Duties

- Preparing report to the Dean of the School
- Preparing the Budget of the Department
- Responsible for the distribution and expenditure of Department funds
- Responsible for the care of the Department property
- Prepare the teaching load for the staff in the Department
- Attend faculty meetings
- Chair Departmental meetings
- Accounting officer of the Department

October 2015

Appointment as Head of Technology Department in the School of Applied Sciences & Technology [Annex 33]

Educational Duties

- Providing Direction& Responsibility of the Department operations
- Presenting results to the School Board
- Providing general supervision of the work of students &Staff in the Department
- Coordinating the teaching ,research and extension activities of the Department
- Cooperating with other Departments of the School in the further and better development of School/University activities among others.

Administration Duties

- Preparing report to the Dean of the School
- Preparing the Budget of the Department
- Responsible for the distribution and expenditure of Department funds
- Responsible for the care of the Department property
- Prepare the teaching load for the staff in the Department
- Attend faculty meetings
- Chair Departmental meetings
- Accounting officer of the Department

January 2015

Appointment to the Committee of Graduate studies and Research [Annex 34]

- Receive, consider and recommend to Senate proposals from Schools on Graduate
- Ensure the quality of graduate syllabi and regulations related to graduate studies in different schools
- Ensure that qualified students are attracted and admitted into these programs in each school
- Ensure that high level advanced research at post graduate is maintained in schools
- Ensure that students complete their studies in the stipulated time in each school
- Recommend to the University Senate on policies affecting graduate education including, but not limited to, tuition fee policy, credit for graduate thesis ,supervision and courses, admissions policy and procedures
- Ensure that the yearly graduate program calendar are made on time
- Ensure quality of admission of graduate students and the conduct of graduate programmes including examinations and award of graduate degrees and maintain

academic records of all graduate students

- Recommendation to Senate on the appointment of supervisors and external examiners for students dissertation and theses, time extensions etc.
- Consider and take decisions on cases of appeals on examination ,matters
- Consider and take decisions on cases of examination malpractices
- Submit biannual reports to Senate as regards to postgraduate studies in the University
- Encourage the publication of research findings and ensure that the University
- Intellectual Properties Rights are adhere too,
- Review the regulations governing Graduate Academic Programmes at MMU and make recommendations to the Senate
- Serve as the University research ethics committee and institutional review board

August 2015

Assessment of the Effectiveness of SMS - Radio - Online Data Collection Through Tracfm Application - Towards Designing An ICT - Enabled Data Generation Model In The Rwenzori Region, Western Uganda. **Toro Development Network (Toro Dev.)**

September 2012 - 2014 : Head of Computer Sciences Department - School of Informatics and Computing [Annex 35]

Educational Duties :

- Providing Direction & Responsibility of the Department operations
- Presenting results to the School Board
- Providing general supervision of the work of students & Staff in the Department
- Coordinating the teaching ,research and extension activities of the Department

- Cooperating with other Departments of the Schools

Administration Duties :

- Preparing report to the Dean of the School
- Preparing the Budget of the Department
- Responsible for the distribution and expenditure of Department funds
- Responsible for the care of the Department property
- Prepare the teaching load for the staff in the Department
- Attend faculty meetings
- Chair Departmental meetings

10.ACHIEVEMENTS

September 2018

Certificate for Outstanding Commitment & Dedication Service during the preparation of 11th Graduation Ceremony, **[Annex 36]**

2017 / 2018

Certificate of Outstanding Performance for the Academic Year 2017/2018 , **[Annex 37]**

September 2017

Certificate for Outstanding Commitment & Dedication Service during the preparation of 10th Graduation Ceremony , **[Annex 38]**

2015 / 2016

Certificate of Outstanding Performance for the Academic Year 2015/2016 , **[Annex 39]**

February 2013

Confirmation of Employment , **[Annex 40]**

11.STUDENTS SUPERVISION

At Bachelor Level

1. Kule Kenedy 2012/U/MMU/BIT/031 & Rwakihenbo Timothy 2012/U/MMU/BIT/003 , "***Hospital Management System (Bwera Hospital Kasese)***" 2015
2. Kacoboyo Ronald 2012/U/MMU/BIT/017 & Atuhaire Bridget 2012/U/MMU/BIT/006 "***Students Attendance Management System (MMU)*** ", 2015
3. Tumwine John Bosco & Byaruhanga Musa "*Human Resource Management System (HRMS)*" ,2015
4. Ruzigura Edger 2012/U/MMU/BIT/023 & Tuhaise Gorret 2012/U/MMU/BIT/001, "***Student Management System (Case Study : Attendance)*** , 2016 "
5. Mugabyomu Peter & Kamukazi Ednance, " ***Mpanga Market Management System*** " 2015
6. Mugenyi Majiid 2011 /U/MMU/BIT/009 & Mwanje Derrick 2011/U/MMU/BIT/008, "*Library Management System*" 2014
7. Kabapagasa Lady Mary 2011/U/MMU/BIT/017 & Asiimwe Juliet 2011/U/MMU/BIT/013, "***Human Resource Management System***", 2014
8. Kamoga James 2011/U/MMU/BCS/002, " ***Prisoners Management Information System*** " , 2014
9. Bunduka Derrick Byomu 2010/U/MMU/BCS/006, "***Automated Timetable Schedule System*** " , 2014
10. Bukenya Moses 2010/U/MMU/BIT/009 , "***Computerized Asset Registration System***",

2014

11. Assa Nyabongo 2013/U/MMU/BIT/030,“ ***Human Resource Management System***”, 2016
12. Namala Winfred 2013/U/MMU/BCS/003, “ ***Voting System - Case Study MMU*** “ , 2016
13. Sekyoga Joseph 2014/U/MMU/BCS/001, “ ***Vehicle Customs Management System*** “ , 2017
14. Sunday Devison 2014/U/MMU/BIT/015, “ ***Dairy Products Information Management System*** “ , 2017
15. Iga Hakim 2014/U/MMU/BIT/011, “ ***Automated Timetable Schedule Management System***“ , 2017
16. Byarugaba Julius 2014/U/MMU/BIT/005, “ ***Online Aptitude quiz test System*****“ , 2017**
17. **Kasembo Molly 2015/U/MMU/DEP/008,”** ***The impact of single parenting on pupil's academic performance*** “ , 2017
18. Kasaija Emmanuel 2014/MMU/U/DEP/045,” ***The effects of Information Technology on the Performance of Students : Case Study of Butunduzi Town Council*** ”, 2017
19. Ahabyona Lilian 2014/U/MMU/BED/088, “***An Assessment of parents'/guardians education level towards pupil's academic progress. A case study :Butiti sub-county Kyenjojo District*** ” , 2017
20. Magezi Jasper 2014/UMMU/DEP/R/050, **“*Effects of modern technology on learners study in selected primary schools in Kigaraale sub-county***” ,2017
21. Mawino Gertrude Muhuku,2014/U/MMU/Bed/058, “***The role of the media towards communicating the aim of education .A case of Katooke town council*** ” , 2017
22. Turyatunga Moses,2014/U/MMU/Bed/087, “***An assessment of the impact of government subsidies on education on the cost towards access to higher educational institutions*** ”, 2017
23. Mujuni Patrick 2011/U/MMU/BCS/004 , “***Network Resource Management System,Case study of Mountains of the Moon University***”, 2018
24. Henry Bright 2016/U/MMU/BCS/001,”***Parents - Students Performance***

Notification,Case study of Mountains of the Moon University", 2019

At Diploma Level

1. Kwezi Onesmus 2010/U/MMU/DCS/013 "***Bus Link Information System***" 2013
2. Byaruhanga Frank 2010/U/MMU/DCS/003 "***Loans Management Facility Information System***" 2013
3. Isingoma Godfrey 2010/U/MMU/DCS/001, " ***Hospital Management System*** ", 2013

At Masters Level

Co-supervised to the Completion

1. Akolinako Julius (2011/U/MMU/MPA/003). **"*Investigating The Role Of School Management Teams In Monitoring Learners' Assessment In Primary Schools***: *A Case Study Of Kamwenge District.2017*
2. **Manimake Suzan (2015/U/MMU/MELPS/006). " *The Influence of Motivation on Academic Performancortinge of Teachers in Primary Schools. A Case of Fort Portal Municipal School* ", 2017.**
3. **William Karamagi (2018/MMU/MBA/005) . *The Impact of Using Accounting Packages in Financial Reportng Among Small Business : A case Study of Fort Portal Municipality,Western Uganda.* [Annex 41]**

Teaching Domain

- Management Information Systems at Master's Level
- ICT in Education Leadership at Master's Level
- Design and Analysis of Algorithm
- Data Encryption
- Data Communication and Networking
- Networking Technology
- Computer Vision and Image Processing

- Software Engineering
- Graph Theory
- Information Technology Project Management
- Individual Project
- Research Methodology
- Mobile Network
- Etc.

Curriculum Development and Revision

I have revised up to the Submission to National Council of High Education the following Curriculum

Revised

1. Bachelor of Information and Technology
2. Bachelor of Sciences in Computer Sciences
3. Diploma in Computer Science
4. Certificate in ICT

Developed

1. Certificate in Computer Repair and Maintenance - Submitted - and Approved by NCHE
2. Higher Education Certificate in ICT – Submitted and Approved by NCHE
3. Diploma in Information Technology – Submitted and Approved by NCHE
4. Bachelor of Information System – Submitted and Approved by NCHE
5. Bachelor of Science in Software Engineering – Submitted and Approved by NCHE
6. Bachelor of Science in Computer Network Security - Submitted and Approved by NCHE

7. Postgraduate Diploma in Information Technology – Submitted and Approved by NCHE
8. Bachelor of ICT in Education

Ongoing

1. Bachelor of Business Computing
2. Bachelor of Science in Multimedia Technology

12.COMMUNITY OUTREACH

I have been in contact with the Communities and discuss about the roles of ICT in nowdays and how it can shape their mind and change their lives.

- Kijwiga center
- Kagadi
- Kabundaire
- Kenjojo
- Kasese
- Kijwiga

Member of :

2013 – to 2016

Member of University Governing Council

2012- to 2022

Members of University Senate

2013 – to Date

Mountains of the Moon Teaching Staff Association Chair Person

Chairperson of Teaching staff Association

2013 – to Date

Graduation Committee - MMU

Team Leader of ICT Innovation Team

Achieved : MMU Online Results Management

13.SKILLS PROFILE

1. **Software Specializations**

- **Martus Software:** Secure Database and Data Collector
- **Mendeley Software:** Reference and Bibliography Manager
- **Quizlet Software:** Educational Flashcards**,** Questions, Quizzes and Academic Assignments Manager
- **Thunderbird :** Secure Email Manager
- **KeePass :** Password Creator and Manager
- **VeraCrypt:** Disk Encryption
- **AxCrypt:** File Encryption
- **CCleaner and Eraser:** Secure File Deletion
- **Jitsi:** Secure Internet Messaging and Calling
- **Two-factor (2-factor) authentication**

2. **Database Management Systems**

Skills in My SQL, SQL Server, PostgreSQL, SPSS

3. **Programming languages:**

Knowledge in Python, C,C++,VB.NET, and Java

4. **Scripting languages:**

Skills in PHP, VBScript, JavaScript, ASP.Net.

5. **Content Management Systems:**

Skills in Latex, MikTex ,Vensim, Stella and Matlab.

6. **Web development tools:**

Knowledge in Dream Weaver, Front page ,Visual Studio Code

7. **Graphics :**

   Knowledge in Photoshop, flash maker, and Macromedia fireworks

8. **Packages**:

   MicroSoft-Word, MicroSoft-Excel, MicroSof PowerPoint and MicroSoft- Access,SPSS ,STATA and Epinfo.

9. **Computer Hardware:**

   Installation, troubleshooting and configuration of computer accessories, network equipments

Member of

2013 – to 2017

Member of University Governing Council

2012- to Date

University Senate member

2013 – to 2017

Mountains of the Moon Teaching Staff Association Chair Person

Chairperson of Teaching staff Association.

14.LISTENING SKILLS

Good speaking, writing and listening skills acquired in different interactive sessions of my instructing/lecturing time, undergraduate and graduate classes where courses have been taught in English. I also speak and understand very well French language.

15.REFEREES

1. **Dr. Nabaasa Evarist**
   Dean - Faculty of Computing
   Mbarara University
   Tel : 0702198724
2. **Prof Dr. John M KASENENE**

Vice Chancelor

Mountains of the Moon University

Tel : 0772601486

3. **Prof Dr. John Ngubiri**

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